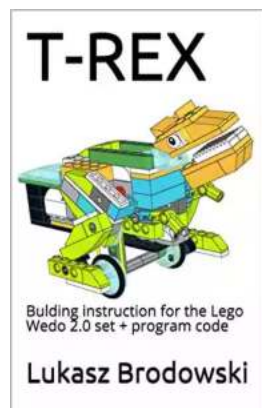# Building Instruction For The Lego Wedo Set Program Code

The Lego Wedo Set Program Code is a fascinating way to introduce children to the world of programming and robotics. With this set, children can learn how to build their own models using Lego bricks and then use programming software to bring them to life.

In this article, we will provide step-by-step instructions on how to build different models using the Lego Wedo Set and program them using the Wedo Software. We will also dive into various coding concepts that children can explore while working with this set.

to the Lego Wedo Set

The Lego Wedo Set is a versatile educational tool that combines hands-on building with coding. It comes with a range of Lego elements, including motors, sensors, and a hub, which serves as the brain of the models built.

T-REX: Bulding instruction for the Lego Wedo 2.0 set + program code

by Linda Whitwam([Print Replica] Kindle Edition)

★★★★★ 5 out of 5

Language	: English
File size	: 9527 KB
Screen Reader	: Supported
Print length	: 286 pages
Lending	: Enabled

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The set also includes the Wedo Software, a user-friendly programming environment specifically designed for children. With this software, children can easily drag and drop different coding blocks to create their programs.

2. Getting Started

Before diving into building and programming, it is essential to set up the Lego Wedo Set correctly. Follow these steps:

Step 1: Unboxing the Set

Open the Lego Wedo Set box carefully and take out all the elements. Make sure you have all the required bricks, motors, sensors, and the hub.

Step 2: Installing the Wedo Software

Visit the official Lego website and download the Wedo Software onto your computer. Follow the installation instructions provided to complete the setup.

Step 3: Connecting the Hub

Connect the hub to your computer using the USB cable provided. Ensure that the hub is properly powered.

3. Building Models

Now that you have set up the Lego Wedo Set, let's explore building different models:

Model 1: Spinning Top

Follow the step-by-step guide to build a spinning top using the Lego bricks. Use various gears and attach a motor to make it spin. This model teaches children about gears and rotational motion.

Model 2: Dancing Robot

Build a robot with moving arms and legs. Attach sensors to detect sound and light, and program the robot to dance when it senses these inputs. This model introduces children to sensors and conditional statements.

Model 3: Remote-Controlled Car

Construct a car with wheels and attach two motors to make it move. Connect the hub to a remote controller and program the car to respond to different commands. This model teaches children about remote control and event-driven programming.

4. Programming the Models

Once you have built the models, it's time to program them:

Step 1: Opening the Wedo Software

Launch the Wedo Software on your computer. You will see a clean and intuitive interface with a toolbox of coding blocks.

Step 2: Drag and Drop Coding Blocks

Start coding by dragging and dropping different blocks from the toolbox onto the programming area. Connect the blocks to form a sequence of instructions.

Step 3: Configuring Actions and Sensors

Configure the actions and sensor inputs for each model. For example, program the spinning top to spin at a specific speed, the dancing robot to respond to sound or light, and the car to move forward or backward based on the controller input.

5. Exploring Coding Concepts

Working with the Lego Wedo Set provides an excellent opportunity for children to explore fundamental coding concepts:

Sequence

Understanding the importance of the sequence of instructions in programming. Children will learn that the order of the coding blocks affects the behavior of the model.

Loops

Introducing loops in programming to repeat certain actions multiple times. Children can make the robot perform a specific dance routine by using loops.
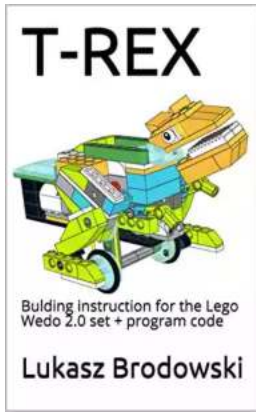
Conditionals

Teaching children about conditional statements to make their models respond to specific inputs. They can program the robot to dance only if it detects sound or move the car only when the remote controller is activated.

Variables

Introducing simple variables to keep track of different values, such as speed or distance. Children can use variables to control the behavior of their models dynamically.

The Lego Wedo Set and its programming capabilities provide an immersive learning experience for children. By building different models and programming them, children can develop their creativity, critical thinking, and problem-solving skills. The set offers a hands-on approach to coding, making it an engaging and enjoyable educational tool.

So, grab your Lego Wedo Set, follow the building instructions, unleash your coding skills, and embark on an exciting journey into the world of robotics and programming!

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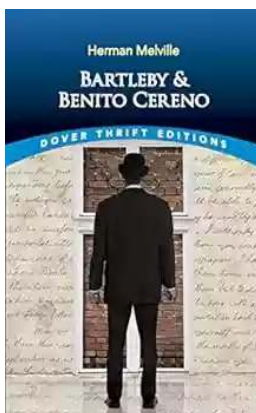Language   : English
File size   : 9527 KB
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Detailed assembly instructions from the Lego WeDo 2.0 set. The manual is ideal as a support material for learning Robotics and Coding. A working robot can be seen on my YT channel: https://youtu.be/wMy_gVhWh_Y

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